

**TECHNICAL REPORT**  
**on the results of application of plastic XADO-grease**  
**in bearings № 112 (4 items) and № 1208 (2 items)**  
**of the grinding units of the pencil mill MKM-1000**

During the period from September, 8, 2000 till February, 9, 2001, an experiment on application of **XADO-grease** in bearings № 112 (4 items) and № 1208 (2 items) of the grinding units of the pencil mill MKM-1000 was carried out at the enterprise "SelkhozProdukt" Ltd. The tests were conducted by the workers of "SelkhozProdukt" Ltd. P.P.Kostenko and A.N.Mudry involving representative of joint-stock company "Research institution PromTechnology +" E.N.Malyshev.

**1. Service conditions of bearings № 112 (4 items) and № 1208 (2 items) of the grinding units of the pencil mill MKM-1000.**

1. mass of the rotating drum - 15 kg;
2. rotational speed - 5600 revolutions per minute (93 revolutions per second);
3. radial load on the bearings - 750.000 H;
4. working temperature of the bearings - 95°C.

**2. Statistics of operation of bearings № 112 (4 items) and № 1208 (2 items) of the grinding units of the pencil mill MKM-1000 before application of XADO-grease**

Bearings № 112 and 1208, which can carry the maximum rotational speed of 5000 rev per minute, have been used at the enterprise in the grinding units of the pencil mill MKM-1000 during 5 years.

5 years' working experience has shown that bearings № 112 и № 1208, which were used in the grinding units of the pencil mill MKM-1000, being squirt three times a day (before every shift) by the standard lubricant "LITOL24", failed and had to be replaces after 500-600 hours of operation.

**3. Results of application of XADO-grease in bearings № 112 и № 1208 of the grinding units of the pencil mill MKM-1000**

Plastic **XADO-grease** was placed into the bearings of the tested unit during the next replacement on September, 8, 2000. Later on, gun-greasing was made by the standard grease "Litol-24". As of February, 9, 2001, all 6 bearings are still in operation. After application of **XADO-grease** total operation time equals to 3000 hours.

**4. Conclusions**

1. Application of plastic **XADO-grease** in bearings № 112 и № 1208 of the grinding units of the pencil mill MKM-1000 has extended operations of the said bearings from 500-600 hours to 3000 hours, i.e. **5-6** times compared to the average period of their operation using grease "Litol-24".
2. Benefits of XADO-grease application amounted at least **\$103**.

---

**"SelkhozProduct" Ltd.**

51 Kolhoznaya st., Peschanoye village, Kremenchug region, Poltava district, Ukraine, 39701;  
Phone/Fax: (0536) 776993, 766487.

---